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SEQUENCE LISTING

<110> Curiel, David T.
Krasnykh, Victor N.
Dmitriev, Igor

<120> Adenovirus Vector Containing A Heterologous Peptide
Epitope in the HI Loop of the Fiber Knob

<130> D6080

<140> 09/245,603

<141> 1999-02-05

<150> US 60/099,801
US 60/073,947

<151> 1998-09-10
1998-02-06

<160> 17

<210> 1

<211> 38

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> Forward primer F1 used to generate a gene encoding
the Ad5 fiber knob domain with the HI loop deleted.

<400> 1

taaggatccg gtgccattac agtaggaaac aaaaataa 38

<210> 2

<211> 43

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> Reverse primer R1 used to generate a gene encoding
the Ad5 fiber knob domain with the HI loop deleted.

<400> 2

catagagtat gcagatatcg ttagtgttac aggttttagtt ttg 43

<210> 3
<211> 42
<212> DNA
<213> artificial sequence
<220>
<221> primer_bind
<223> Forward primer F2 used to generate a gene encoding
the Ad5 fiber knob domain with the HI loop deleted.
<400> 3

gtaaacactaa cgatatatgc atactctatg tcattttcat gg 42

<210> 4
<211> 41
<212> DNA
<213> artificial sequence
<220>
<221> primer_bind
<223> Reverse primer R2 used to generate a gene encoding
the Ad5 fiber knob domain with the HI loop deleted.
<400> 4

cccaagctta caattgaaaa ataaaacacgt tgaaacataa c 41

<210> 5
<211> 63
<212> DNA
<213> artificial sequence
<220>
<223> Oligonucleotide annealed with SEQ ID NO: 6 to form a
duplex and cloned into *EcoRV*-digested pQE.KNOBDHI.
<400> 5

tacactaaac ggtacccagg aaacaggaga cacaactgac tacaaggacg acgatgacaa 60
gcc 63

<210> 6
<211> 63

<212> DNA
<213> artificial sequence
<220>
<223> Oligonucleotide annealed with SEQ ID NO: 5 to form a duplex and cloned into *EcoRV*-digested pQE.KNOBDHI.
<400> 6

ggcttgcata cgtcgccctt gtagtcagtt gtgtcctcctg tttcctgggt accgttttagt 60
gta 63

<210> 7
<211> 29
<212> DNA
<213> artificial sequence
<220>
<223> Oligonucleotide used in synthetic duplex which encodes MetHis₆Lys.
<400> 7

gatccatgca tcaccatcac catcacaag 29

<210> 8
<211> 29
<212> DNA
<213> artificial sequence
<220>
<223> Oligonucleotide used in synthetic duplex which encodes MetHis₆Lys.
<400> 8

cgcgcttgc atggatgg tgatgcatt 29

<210> 9
<211> 16
<212> DNA
<213> artificial sequence
<220>
<223> An *NdeI-SwaI* linker ligated to plasmid pTG3602 after

partial digestion of the plasmid with *NdeI*.

<400>	9	
tacccattta aatggg		16
<210>	10	
<211>	66	
<212>	DNA	
<213>	artificial sequence	
<220>		
<223>	Oligonucleotide in duplex cloned into <i>EcoRV</i> site of plasmid pQE.KNOBDHI generating pQE.KNOB.RGDHI.	
<400>	10	
cacactaaac ggtacacagg aaacaggaga cacaacttgt gactgccgcg gagactgttt	60	
ctgccc		66
<210>	11	
<211>	66	
<212>	DNA	
<213>	artificial sequence	
<220>		
<221>	primer_bind	
<223>	Oligonucleotide in duplex cloned into <i>EcoRV</i> site of plasmid pQE.KNOBDHI generating pQE.KNOB.RGDHI.	
<400>	11	
gggcagaaaac agtctccgcg gcagtcacaa gttgtgtctc ctgtttcctg tgtaccgttt	60	
agtgtg		66
<210>	12	
<211>	41	
<212>	DNA	
<213>	artificial sequence	
<220>		
<223>	Oligonucleotide in synthetic duplex used to replace 41 bp <i>PacI-ClaI</i> -fragment in pcDNA.Luc, generating pcLucPC1.	
<400>	12	

caaatacataa ggatatcagg tggcccccgc tgaattggag t

41

<210> 13
<211> 45
<212> DNA
<213> artificial sequence
<220>
<223> Oligonucleotide in synthetic duplex used to
replace 41 bp *PacI-ClaI*-fragment in pcDNA.Luc,
generating pcLucPC1.
<400> 13

cgactccaat tcagcgaaaa ccacctgata tcctttgtat ttgat

45

<210> 14
<211> 13
<212> PRT
<213> artificial sequence
<220>
<223> Amino acid sequence deleted from the HI loop of
the fiber knob domain and replaced with a
unique *EcoRV* site.
<400> 14

Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp Thr Thr Pro

5 10

<210> 15
<211> 8
<212> PRT
<213> artificial sequence
<220>
<223> Amino acid sequence of the FLAG octapeptide.
<400> 15

Asp Tyr Lys Asp Asp Asp Asp Lys

5

<210> 16

<211>

9

<212>

PRT

<213>

artificial sequence

<220>

<223>

Amino acid sequence of a RGD peptide incorporated
into the region of the fiber gene within the HI loop.

<400>

16

Cys Asp Cys Arg Gly Asp Cys Phe Cys

5

<210>

17

<211>

13

<212>

PRT

<213>

artificial sequence

<220>

<223>

Amino acid sequence of peptide replacing the
RGD coding sequence.

<400>

17

Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp Thr Thr Pro

5

10